

A cost-effectiveness software tool is being developed at the National Institute of Standards and Technology. The software provides the means for implementing several ASTM standardized economic evaluation methods and helps its users choose cost-effective strategies to reduce personal injuries, financial losses, and damage to constructed facilities. It also helps key decision makers produce a risk mitigation plan that responds to the natural and man-made hazards in a financially responsible manner. By using standardized economic evaluation methods to promote more informed decisions, key decision makers and other stakeholders will benefit from reduced exposure to losses from hazards.

Information detailing the software's progress and downloadable testing versions of the software can be obtained from <http://www.bfrl.nist.gov/oae/software/cet.html>.

Software Rollout Schedule

September 2004	Beta version with Baseline Analysis and Deterministic Sensitivity Analysis
March 2005	Version 1.0: Baseline and Deterministic Sensitivity Analysis
March 2006	Version 2.0: Baseline and Deterministic & Probabilistic Sensitivity Analysis

Cost Summary Window

Project: Data Center Renovation

Cost Type: LCC

Edit Costs/Events

☒ Base Case ☒ Alt. 1 ☐ Alt. 2 ☐ Alt. 3

Total:	\$5,892,875	\$5,242,377	\$0	\$0
Costs by Bearer:				
<input checked="" type="checkbox"/> Owner/Manager	\$3,297,962	\$3,472,413	\$0	\$0
<input checked="" type="checkbox"/> Occupant/User	\$1,927,208	\$1,493,464	\$0	\$0
<input checked="" type="checkbox"/> Third Party	\$667,705	\$276,501	\$0	\$0
Costs by Budget Category:				
<input checked="" type="checkbox"/> Capital Investment	\$1,168,484	\$1,771,858	\$0	\$0
<input checked="" type="checkbox"/> O&M	\$4,037,158	\$3,188,160	\$0	\$0
<input checked="" type="checkbox"/> Other	\$687,233	\$282,359	\$0	\$0
Costs by Component:				
<input checked="" type="checkbox"/> Building/Facility Elements	\$2,826,402	\$3,028,991	\$0	\$0
<input checked="" type="checkbox"/> Building/Facility Site Work	\$155,626	\$246,355	\$0	\$0
<input checked="" type="checkbox"/> Non-Elemental	\$2,910,847	\$1,967,032	\$0	\$0
Costs by Mitigation Strategy:				
<input checked="" type="checkbox"/> Engineering Alternatives	\$3,828,787	\$3,496,802	\$0	\$0
<input checked="" type="checkbox"/> Management Practices	\$2,064,088	\$1,745,575	\$0	\$0
<input checked="" type="checkbox"/> Financial Mechanisms	\$0	\$0	\$0	\$0

